

The Magnificent Surroundings of the Department—
Some Glimpses at Naval History—The Pitiful
Show We Now Make on the Sea—The
Men who Have Presided—Etc.

of them could be used only for harbor defense, and not effectually then. The steel cruisers are yet on trial, with emphatic opinions in both directions as to their probable worth.

So when the next congress comes to the instruction of a naval bill it will literally have to begin at the beginning." It is an undertaking that must be carried out deliberately and with the fullest appropriations, it must be

The Liberty Bell
 om the Philadelphia Press.
 The able Richmond Dispatch remarks that "the
 Liberty Bell having reached New Orleans without
 any accident, the Press is very unhappy." Our
 correspondent is in error. The Press is
 unhappy. It is only apprehensive that the
 note of the Liberty Bell in the fervent zeal
 of their patriotic friends will meet the dear old bell up
 with a new set of buttons.

life, and therefore must be so if it isn't so.
A clergyman, visiting a woman in a severe illness, asked:
"Do you derive any comfort from the instruction of the Bible?"
"Oh, yes, indeed," was the reply.
"What particular passage do you rely upon at present?" asked the minister.
"Grieve and bear it," replied the sufferer.
The clergyman departed to look up a concordance.

The sun is bright and beautiful,
Which gleams in roseate skies;
Then bow divinely fair your soul,
Which fires celestial eyes!

Long may that soul, Love's quickening sun,
In Hope's fair Heaven that rose,
Propitious shine 'mid duties done,
And brighten at their close!

—Stanhope Sams.

Augusta, Ga., January 22, 1885.

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L. E. O'KEEFE, President.

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GATE CITY BANK. P. O. BOX 54.
GEO. M. MCKENZIE, Sec'y and Treas.



MILLO MAIZE.

THE FACTS CONCERNING ITS CULTURE GIVEN.

How the Plant was Introduced into This Country—Its Extraordinary Productiveness—Its Power to Withstand Drought—The Method of Its Cultivation—Etc., Etc.

"TAKLEWOOD," Marietta, Ga., January 31, 1885.—Editors Constitution: In compliance with your request, I give you the following account of what I have learned concerning "millo maize," and my four years' experience in its culture.

The original millo maize seed was imported from South America by the Rev. H. B. Pratt, in 1877, and was cultivated for several years by him, Mr. B. G. Pratt, at or near Winnsboro, South Carolina.

It has long been the staple grain, answering the several uses of our Indian corn, for the population of a large area of South America.

I obtained my seed of Mr. Chas. Pratt, and first planted it in the spring of 1881. Although it had over seven months' good season, it failed to form seed heads, and I am informed that none of the imported seed plants in Georgia that season, matured its seed, while the Pratt's and others secured crops in South Carolina.

Notwithstanding its failure to make seed, the foliage of that crop was amazingly heavy and I pulled at the rate of 4,000 pounds of fodder to an acre, and was informed that Mr. Richard Peters had, that same season, saved 4,000 pounds of fodder to an acre, from ten acres. I afterwards cut the crop, and secured nearly five tons, which they ate greedily and wasted none.

There has been discussion as to what the plant was, and it is originally from South America, and belongs to the sorghum family. My seed came from the Pratt's and hence is from parent seed of South America.

Its stalks and foliage, habits and mode of growing, resembles sorghum. It grows to a height of 8 and 14 feet, and is clothed with verdure from bottom to top. The seed heads, stand erect, measuring 6 to 10 inches in length, being very compact and close, the seed crowding tightly together, weighing three to five ounces, and numbering 3,000 to 5,000 seeds to each head, and 14,000 to 17,000 seeds to a pound. Millo seed weighs, uniformly, sixty (60) pounds to a bushel.

The original plants were about half the size of large white wheat, of a clayish-brown color, and had a small bright scarlet eye. In shape, the seed have the appearance of nearly round grains of corn.

The foliage of the plant is, longer, heavier, and more abundant than that of Indian corn, and is quite as easily cut. It is eaten with evident relish by stock, quite as much as that of corn fodder.

Withstanding drought. The very marked characteristic of millo, in holding its own, continuing its vigorous growth, right through our severest droughts, seems to entitle it to very great consideration. The only perceptible effect of a drought upon it, being in the smaller yield of good seed, failing as it does to fill out fully.

The original crop, raised in 1881, was watched the crop carefully throughout the severe drought of 1883, and called the attention of many persons to its green and luxuriant condition, even when corn was entirely dried up, millo looked as if it had been watered daily.

Too much cannot be said in its praise and commendation, and for its support of its certainty to yield a crop, drought or no drought, I may say that the foregoing is another form: In no season will millo fail to yield nearly as much seed in weight, and many times as much forage as corn.

MILLO MAIZE IS NOT A DROUGHT. It is essentially different from all droughts, not only in its analysis, but in the fact that droughts produce only one stalk from a seed, while the original millo seed tillered from four to nine stalks. But in October I found the improved or acclimated seed now tillers from nine to twenty-eight.

ACCLIMATION. The first object of millo was the long season—nearly eight months—required to make and mature its seed; and hence, the difficulty most every one had in securing a crop. But in October I found the improved or acclimated seed now tillers from nine to twenty-eight.

The wonderful yield of leaf forage in 1881, fixed my attention upon the plant, and, from observation and experience, I concluded that the plant would accommodate its habits to our climate, and with careful selection of seed and cultivation, its long season for maturing seed might be shortened.

ASSAULTS. In 1882 I again procured and planted seed, obtained of Mr. Charles Pratt—these seed were harvested in South Carolina in 1881, a year of drought there—and I matured forty bushels of seed to the acre. Season about six and a half months.

In 1883, on a severe drought, I obtained twenty-four bushels from an acre, in about six months, and found in the field several seeds which had fully ripened their seed.

When I reported this fact to the agricultural department there was a suspicion that I must have gotten some stray branching sorghum or other plant, and I was told to wait. I said, "Wait and see."

Last season (1884) I planted one patch of quarter of an acre, and another of one acre—both equaling 70 bushels to an acre—of cleanest millo seed, and it matured in about five and a half months. I also planted another patch with the prematurely ripened seed—planted it, after cutting out, in June, matured its seed in about four and a half months. This millo seed matured nearly three times the size of the original seed. I expect to pursue experiments with the prematurely ripened seed, in the hope, and as I believe, with a fair chance, of securing a crop for maturing seed, as to give a "following crop." But I wish it understood that the body statements of this paper are confined wholly to the main crop, the seed of which has nearly doubled in its size by culture and acclimation.

The amount of leaf forage has also materially increased, but the main reason for this improvement, has developed an astonishing and invariable result as to the stalk, which I will treat in full under the head of "Revelation."

I have now recounted the progress of improvement of this seed and plant, which is mainly due to acclimation.

The season for maturing the seed is shortened from nearly eight to five and a half months.

The stalks are rendered available for forage, and are used for stock.

After threshing the heads out, the seed have been put through a fanning mill, run at high speed, blowing out trash and light, faulty seed; then they have been put through a series of suitable sieves to reject small seed. As an illustration of the effective results from this method, I will cite the crop of 1883: Twenty-eight bushels which I thus cleaned, were culled to eleven bushels of prime seed.

The crop of last season is uniform in size and has shown no appreciable loss by winnowing.

PLANTING AND CULTIVATION. To make a seed crop.—A check of 4 by 2 feet seems to be what the seed requires, but for stock room and to perfect its size.

For Forage Cutting.—A check of 1 by 2½ feet. Never sow in drills, it must be sown in rows, and this plant must have plenty of root-space.

Prepare the ground in well defined ridges. When ready to plant, open the ridge with a bull-tongue deep enough to cover the seed with four (4) inches of soil, and the soil must be moist. After three days knock of three (3) inches of the ridge and the seed will be found to have germinated.

Here I may indicate the probable cause why so many have failed to obtain a stand. The

small seed must be enveloped with moisture, for not less than forty-eight hours, to ensure their germination—to avoid their rotting, which they certainly will do—if moisture and dryness alternate, and they are not kept upon the seed during the time stated.

In planting, use twice or three times the number of seed that you require of standing plants, viz:—

For a Seed Crop.—Drop six to eight seeds to a hill, the hills being three feet apart in the row, and the rows four feet apart, making the check of four by two feet. Pull to the row of four plants to each hill—never leave more.

For Forage Cutting.—Drop three to four seeds to a hill, and the hills one foot apart in the row, the rows being three feet apart, making the check of four by two feet. Pull to the row of four plants to each hill—never leave more.

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excellent battercakes, resembling buckwheat in taste, but superior to it, in not having that heating, irritating property, which is, to some, unwholesome.

For Varieties.—Add a fourth Indian meal or wheat flour. There are many other ways of cooking and serving it, which our good housewives will readily discover. It has been eaten whole the same as rice or high hominy.

These statements need not be a surprise, when it is remembered that Millo is the grain depended upon by a large portion of the population of South America.

Yours, Etc., G. W. BROWN.

A TABLE OF COMPARATIVE ANALYSES.

Water 10.00 10.00 10.00
Crude Fibre 1.00 1.00 1.00
Starch, gum, sugar, etc. 1.00 1.00 1.00
Fat 1.00 1.00 1.00
Albuminoids 1.00 1.00 1.00
Ash 1.00 1.00 1.00

A PARTIAL ANALYSIS OF THE ASH.

Phosphoric acid 0.84 0.81 0.79
Potash 0.53 0.54 0.43
Lime 0.01 0.01 0.01
Other mineral matter 0.01 0.01 0.01

Estimating the ready-formed fat as at double the value of the starch and other carbohydrate, as fat-formers, we have the following results:

Fat forming constituents 70.80 74.70 70.35
Flesh forming constituents 9.82 10.70 8.86

SAVINGS DEPARTMENT
With Interest on Deposits.

TO ENCOURAGE AND STIMULATE THE DISPOSITION TO ECONOMIZE AND SAVE BY OUR LABORING POPULATION.

The Gate City National Bank
Has instituted a SAVINGS DEPARTMENT, and another third turned in January 1885, it will issue TIME CERTIFICATES OF DEPOSIT, bearing FOUR PER CENT INTEREST for any amount not less than \$1.00.

President Gate City National Bank,
R. S. McCANDELL, Cashier.

MADDOX, RUCKER & CO.
BANKERS.

SOLICIT THE ACCOUNTS OF BANKS, MERCHANTS AND INDIVIDUALS, AND OFFER AS LIBERAL FACILITIES AS IS CONSISTENT WITH THE INTERESTS OF THE BANK.

IRWIN, GREEN & CO.
SHIPPING AND COMMISSION MERCHANTS.

GRAIN AND PROVISIONS,
No. 2 Chamber of Commerce,
CHICAGO.

Dr. BETTS & BETTS,
Medical and Surgical Dispensary.

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FOR RENT OR LEASE.

OFFICES AND ROOMS IN THE

New Constitution Building

IN SUITS OR SINGLE ROOMS.

HEAT AND ELECTRIC LIGHT FURNISHED

WITH EACH ROOM.

AN ELEGANT OTIS PASSENGER ELEVATOR

Running constantly.

Diagrams of the building can be seen at The

W. A. HEMPHILL, Business Manager

The Georgia Pacific Railway

LOCAL TIME TABLE, IN EFFECT JAN. 4, 1885.

CENTRAL STANDARD TIME.

No. 50, No. 51, No. 52, No. 53, No. 54, No. 55, No. 56, No. 57, No. 58, No. 59, No. 60, No. 61, No. 62, No. 63, No. 64, No. 65, No. 66, No. 67, No. 68, No. 69, No. 70, No. 71, No. 72, No. 73, No. 74, No. 75, No. 76, No. 77, No. 78, No. 79, No. 80, No. 81, No. 82, No. 83, No. 84, No. 85, No. 86, No. 87, No. 88, No. 89, No. 90, No. 91, No. 92, No. 93, No. 94, No. 95, No. 96, No. 97, No. 98, No. 99, No. 100, No. 101, No. 102, No. 103, No. 104, No. 105, No. 106, No. 107, No. 108, No. 109, No. 110, No. 111, No. 112, No. 113, No. 114, No. 115, No. 116, No. 117, No. 118, No. 119, No. 120, No. 121, No. 122, No. 123, No. 124, No. 125, No. 126, No. 127, No. 128, No. 129, No. 130, No. 131, No. 132, No. 133, No. 134, No. 135, No. 136, No. 137, No. 138, No. 139, No. 140, No. 141, No. 142, No. 143, No. 144, No. 145, No. 146, No. 147, No. 148, No. 149, No. 150, No. 151, No. 152, No. 153, No. 154, No. 155, No. 156, No. 157, No. 158, No. 159, No. 160, No. 161, No. 162, No. 163, No. 164, No. 165, No. 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